



1712 - 81714

PATENT  
Attorney Docket YO998-086  
IBM-178

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Angelopoulos, et al.  
Serial Number : 09/036,458  
Filing Date : March 6, 1998  
Examiner : T. Yoon  
Group Art Unit : 1714  
For : METHODS OF PROCESSING AND  
SYNTHESIZING ELECTRICALLY CONDUCTIVE  
POLYMERS AND PRECURSORS THEREOF TO  
FORM ELECTRICALLY CONDUCTIVE  
POLYMERS HAVING HIGH ELECTRICAL  
CONDUCTIVITY

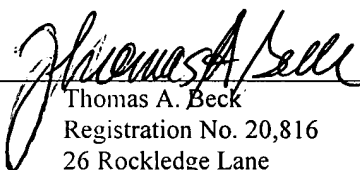
To: The Honorable Commissioner of  
Patents and Trademarks  
Post Office Box 1450  
Alexandria, VA 22313-1450

Sir:

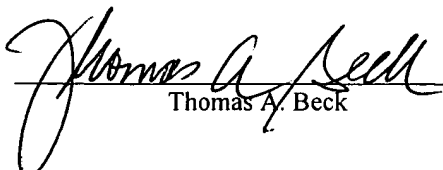
In response to the Official Action dated June 21, 2004, please amend claim 20 in the attached response as set forth in Appendix A attached thereto. The balance of the amendment is as filed previously on May 4, 2004.

In view of the arguments and modification to the claims, allowance of Claims 1 - 24 in this case is warranted. Such favorable action is respectfully solicited.

Respectfully Submitted,

  
Thomas A. Beck  
Registration No. 20,816  
26 Rockledge Lane  
New Milford, CT 06776  
Telephone (860) 354-0892

I certify that this amendment is being deposited with the United States Postal Service on the date shown below addressed to Assistant Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450

  
Thomas A. Beck July 8, 2004



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**Attorney Docket YO998-086**  
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To: The Honorable Commissioner of  
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Alexandria, VA 22313-1450

Sir:

The Examiner has sent an Advisory Action in response to the amendment filed responding to the Official Action dated December 30, 2003.

Applicants are concurrently filing an RCE, and file this preliminary amendment in support of the patentability of the claims in this case.

In a prior decision on appeal rendered by the Board of Patent Appeals and Interferences, the Board held that Claim 12 as appealed was defective in that there is no indication of how the precursor to an electrically conductive polymer or electrically conductive polymer in a solvent is treated, manipulated or formed. In addition, the Board held in the Decision that the claim does not indicate the results which are to be achieved by the claimed method.

In the amendments submitted November 18, 2003 and April 5, 2004, Applicants submitted an amended version of Claim 1 for consideration by the Examiner as well as modified versions of Claim 1 found in Claims 22 - 24. The versions of the claims as contained in this amendment clearly state how the precursor to an electrically conductive polymer or electrically conductive polymer in a solvent is treated. The precursor is doped and the claims define the results (processing to form an article; support: Page 20, line 11) which are achieved by the claimed method.

The Examiner has again refused to consider Claims 23 and 24 indicating in the Official Action that "they are not official claims." Applicants respectfully submit that, as a matter of substance, these claims were properly introduced into the application in the amendment filed November 18, 2003, and should have been examined. The Examiner's refusal to enter and consider these claims was improper. Applicants acknowledge that in one of the aforementioned amendments, Applicants inadvertently designated Claims 23 and/or 24 as being "Proposed." Pursuant to 37 C.F.R. 1.121 II A)5 Applicants' proper designation should have been "New." But despite the incorrect designation, (which is solely a matter of form and is a purely semantic objection) it is clear that those claims were understood to be "New" and should have been examined. The correct parenthetical expression of claim status has now been added to these claims by inserting the word "New" before the preamble to identify the status of these claims.

The basis for the addition of the elements of "aggregation/deaggregation" and "solvation" are found in the specification.

The Examiner has rejected Claim 22 asserting that it contains "new matter." Specifically, the Examiner continues to object to the use of the expression "selecting said concentration to provide a selected value of said electrical conductivity" saying the limitation has no support in the specification, and applicants failed to provide any support for it.

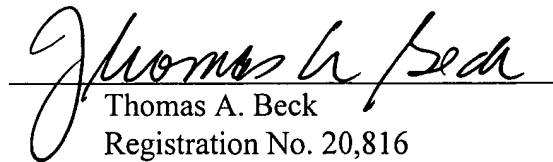
It is clear from a reading of the specification, that in the system claimed, there is a functional relationship between the concentration of polymer in solution and electrical conductivity. Applicants' claims recite that the concentration of the polymer used in accordance with the system, will be that concentration of polymer in solution which provides the maximum conductivity. The clear and unambiguous support for this limitation is found in the specification at page 20, lines 18 - 21, which states: "*It was noticed that the conductivity (is) dependent on the concentration of the polymer in solution. From a 0.5 to 2% solution, a conductivity of 100S/cm was attained and above 3% a conductivity of 200 S/cm was attained.*" The benefits of the invention and the functional relationship between concentration and conductivity is depicted in Figures 3 - 5 of the drawings.

In view of the changes to the claims and the remarks herein, withdrawal of the rejection of Claim 22 as anticipated under 35 U.S.C. 102(b) or, in the alternative under 35 U.S.C. 103(a) as obvious over Jonas, et al.

Any fees which result from the claims added herein should be charged to Deposit Account 50-0510.

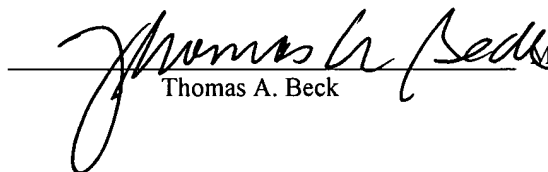
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Respectfully Submitted,

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Thomas A. Beck  
Registration No. 20,816  
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New Milford, CT 06776  
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May 14, 2004  
Thomas A. Beck